338(c) 15 SOURCE CODE: UR/00/0/66/168/003/0636/0639

AUTHOR: Sinitsyn, V. V.; Aleyeva, Ye. V.

ORG: none

TITLE: Effect of fauty acid chain length on rheological characteristics of pseudogels in lithium soaps

SOURCE: AN SSEE Towlady, v. 168, no. 3, 1966, 636-639

TOPIC TAGS: lithium, rheologic property, solid viscosity, grease, lubricant, fatty acid

ABSTRACT: The effect of fatty acid chain length (C12-C22) on tensile and shearing strengths, effective viscosity, and shrinkage of greases based on lithium soaps was investigated. The study encompassed lithium soaps based on the following acids: lauric (C12), myristic (C14), palmitic (C16), stearic (C18), and behenic (C22). As measured at 20° and 80°C, the lithium grease based on palmitic acid exhibited highest tensile and shearing strengths. Moreover, maximum effective viscosity and minimum shrinkage work found to coincide with the greases based on fatty acids

Card 1/2

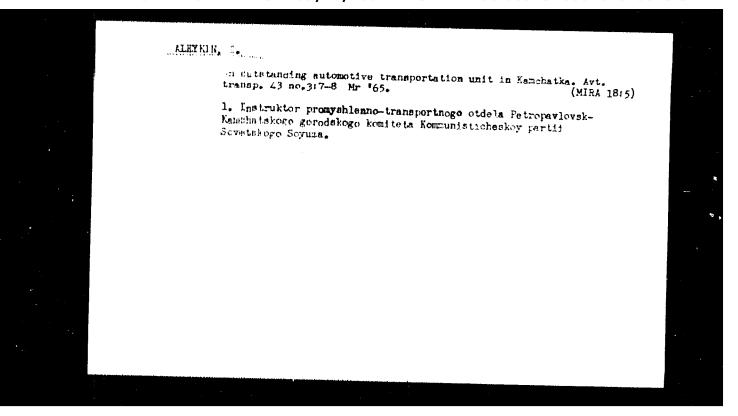
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L 36865-66 ACC NR: AP6018061

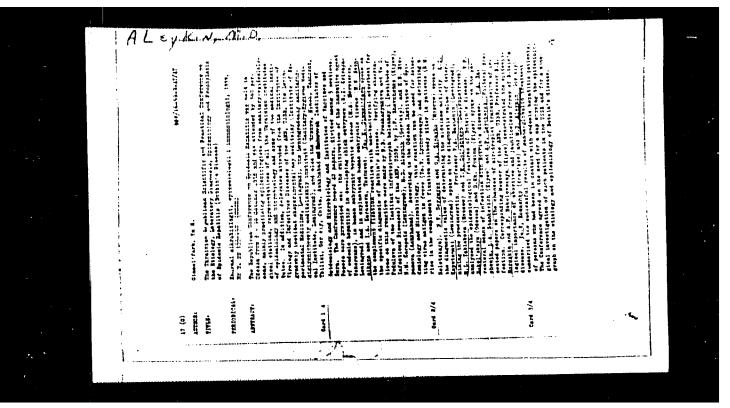
within C_{16} - C_{17} chain length range. It was found that the rheological characteristics of lithium greases based on C_{12} - C_{22} remained practically unaffected after aging for 30 days at 120°C. Data on the rheological properties of various lithium greases used in this study are graphed and tabulated. The results obtained in this study are in disagreement with published data indicating monotonic decline of the rheologic properties of greases with increases in fatty acid chain length. The article was presented by Academician P. A. Rebinder on 25 September 1965. Orig. art. has: 2 figures and 4 tables.

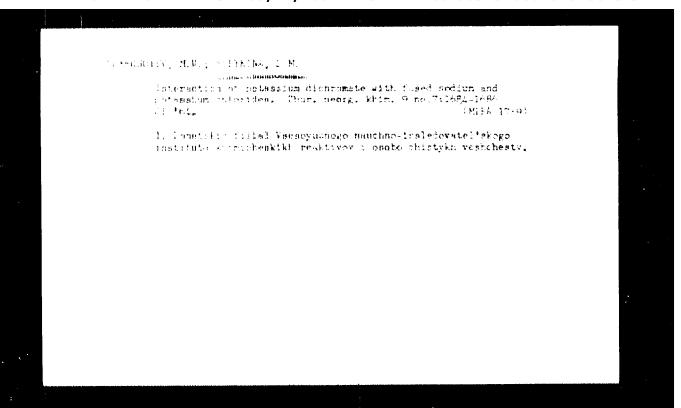
SUB CODE: 07/ SUBM DATE: 25Sep65/ ORIG REF: 006/ OTH REF: 003

Card 2/2// ##



"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000101020013-3





BELYAYFU, L.M.; LYAKHOVITSRAYA, V.A., NETERNU, G.B., MCKHOROYFU, M.V.;
ALENERMS, S.M.

Synthesis and crystallization of entimony sulfricadide lzv
AN SSSR. Neorg. mat. 1 no.12:2178-2181 E-65. (MHRA 18:12)

1. Institut kristallografii an RUSE, Submitted May 39, 1065.

MARSHAROV, I.K.; BOGDAMOV, V.P.; ALEYKINA, S.M.

Corroudon and electrochemical behavior of alloys of the copperrime system. Part 1. Thur. fiz. khim. 38 no.7:1764-1769 J1 164.

(1998–18:3)

1. Veronezhskiy gousdarstvennyy universitet.

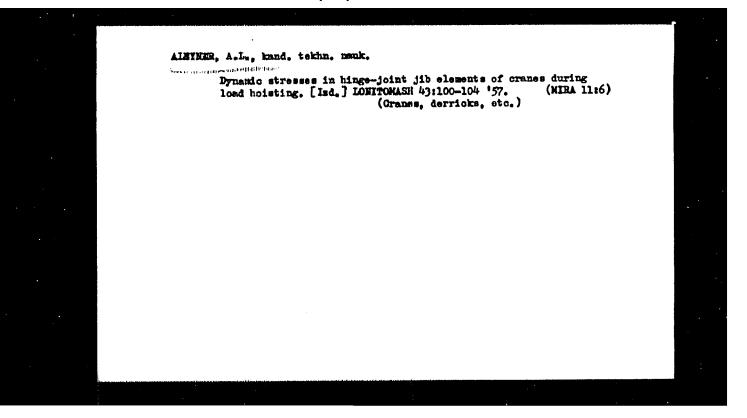
MONHOSOMEY, M.V., ALIYKIN*, S.M.

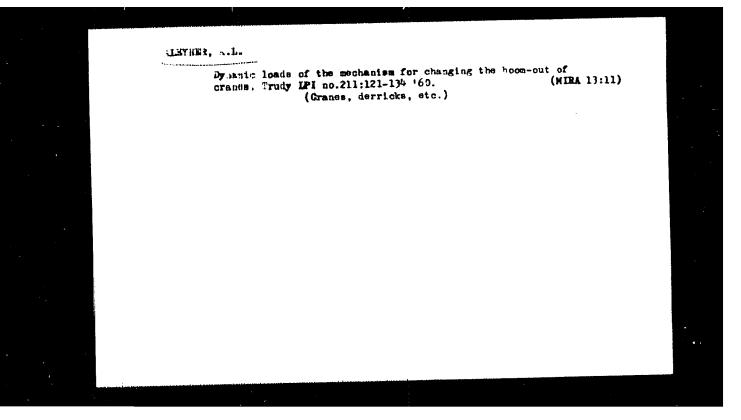
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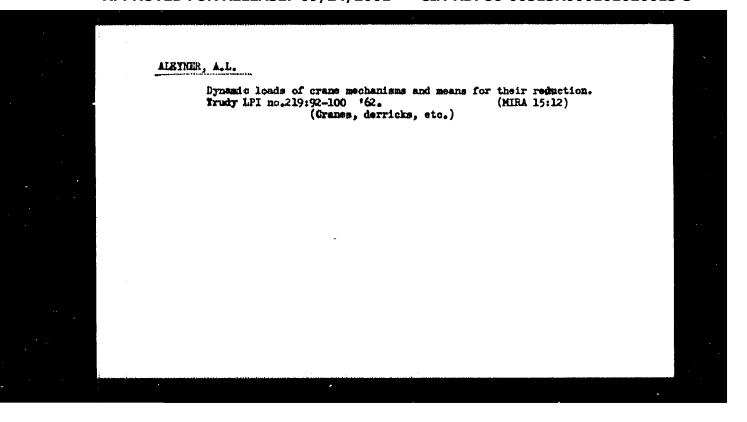
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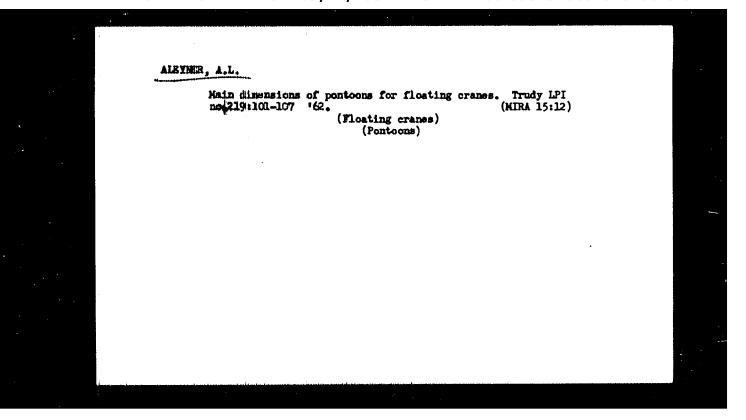
i. Bonetskiy filial Venscyvarogo nauchno-iraledovatel*akogo instituta khimicheskikh renktivov i osoto chistykh veshchestv.

Submitted Hay 10, 1963.









ALEYNER A.I.; ANAN'IEV, A.A.; KOGAN, I.Ya.; LANG, A.G.;

RIROLMYEVSKIY, G.H.; PLAVINSKIY, V.I.; SAMOYLOVICH, P.A.;

GORBAGHEV, A.I., insh., retsenzent; DUKEL'SKIY, A.I., prof.,

dokton pekhn. nauk, red.; SKOMOROVSKIY, R.V., kand. tekhn.

nauk, red.; HITARCHUK, G.A., red.isd-va; VASIL'YEVA, V.P.,

red.isd-va; SPERANSKAYA, O.V., tekhn. red.

[Handbook on cranes] Spravochnik po kranhm. Pod red. A.I. Dukel*skogo. Moskva, Mashgis. Vol.3. [Characteristics of cranes, maintenance and installation] Kharakteristiki kranov, tekhnicheskaia ekspluatatsiia i montazh. 1963. 340 p.

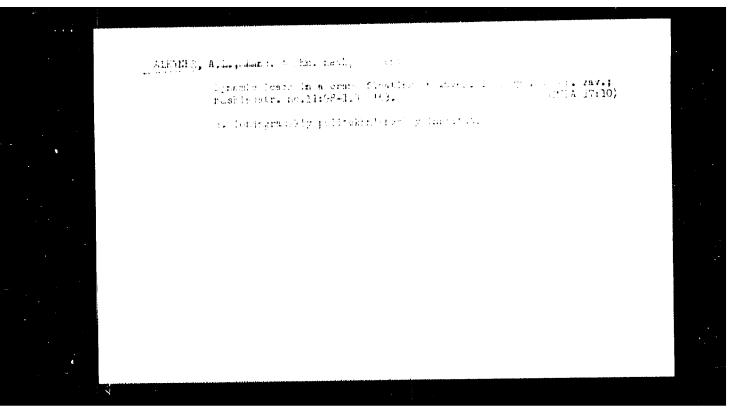
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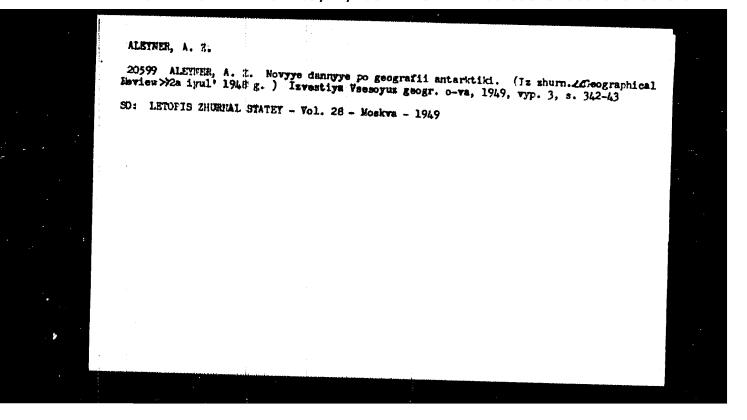
(Cranes, derricks, etc.)

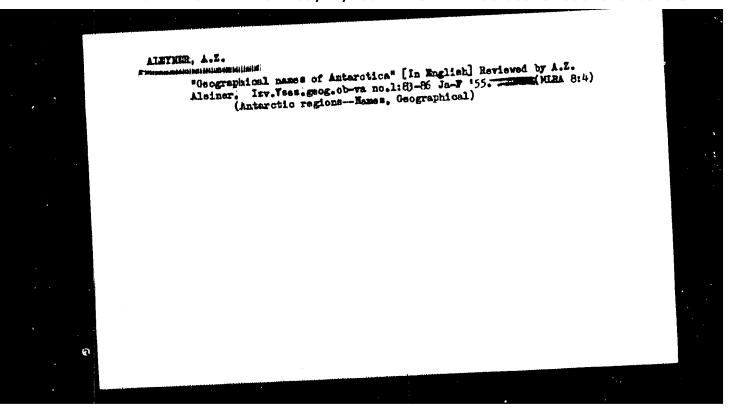
ALETNER, A.I., Kand.tekhn.nauk, dotsent

iotalion resistance of floating cranes. Itv.vys.ucheb.zav.;
mashlmostr. no.71126-132 163. (MIRA 16:11)

1. Lanlugradskly politekhnicheskiy institut imeni Kalinina.







ALEYNER, AZ.

PHASE I BOOK EXPLOITATION

464

Geograficheskoye obshchestvo SSSR

Antarktika; materialy po istorii issledovaniya i po fizicheskoy geografii. (The Antarctic; Materials on the History of its Exploration and Physical Geography) Moscow, Geografgiz, 1958. 445 p. 5,000 copies printed.

Resp. Eds.: Pavlovskiy, Ye. N., Academician; Kalesnik, S. V., Corresponding Member of the USSR Academy of Sciences; Ed.: Grishina, L. I.; Tech. Ed.: Gleykh, D. A.; Map Ed.: Kiseleva, Z. A.

PURPOSE: The book, written in a semi-popular style, is intended for the large circle of geographers interested in the Antarctic region.

Card 1/8

The Antarctic; Materials on the History (Cont.) 464

COVERAGE: The present volume, sponsored by the Geographical Society of the USSR, is a collection of articles authored by several geographers summarizing up to date information on the Antarctic region. It provides an account of exploration and discovery since the first Russian expedition into the Antarctic in 1819, and describes the region's geological and geomorphological structure, glaciation processes, and the water currents of the south polar seas. The last chapter contains a glossary of Antarctic place names which is appearing in Soviet literature for the first time. The book is profusely illustrated with diagrams, photographs, and maps.

3

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464 The Antarctic; Materials on the History (Cont.) Brief description of the areas of current glaciation in the 298 Antarctic 317 Bibliography The author discusses the types of ice formations and the background conditions and factors in the current glaciation of the Antarctic. At present only an estimated 0.02% of the surface of the Antarctic Continent is ice free, and together with shelf ice it covers an area of 13.5 million km? The Antarctic region comprises 87% of the total glaciated land surface of the Earth and 85% of its total glaciated area. Buynitskiy, V. Kh. Waters and Ice Formations of the Antarctic 320 320 Waters 356 Ice formations Extent of the ice cover in different parts of the Antarctic 393 405 Bibliography **Card** 7/8

The Antarctic; Materials on the History (Cont.) 464

The Antarctic region is delimited by the northern boundary of the antarctic waters, i.e. where the antarctic waters meet those of the moderate latitudes. The author describes the relief of the ocean floor, the three types of water masses, currents, tides, sea ice, icebergs, and the extent of the ice covering in the Antarctic.

Aleyner, A. Z. Geographic Glossary of Name Places in the Antarctic

407

The list contains about 500 names of the more important locations in the Antarctic.

AVAILABLE: Library of Congress

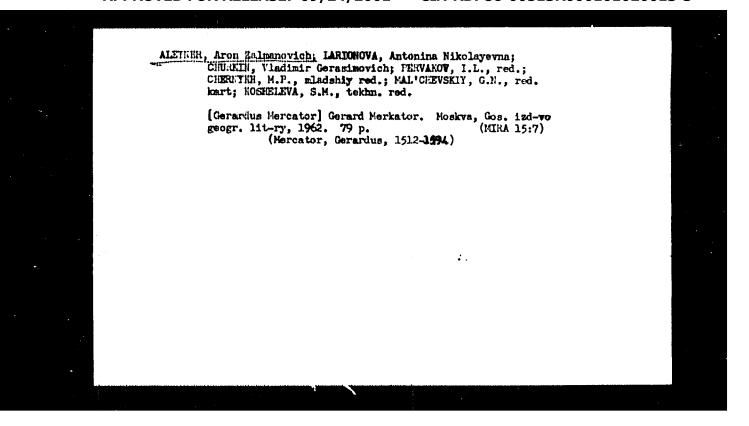
Card 8/8

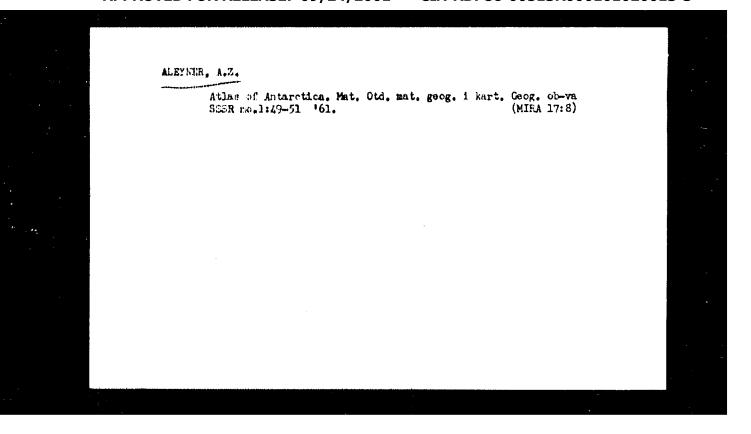
MM/mal 28 August, 1958

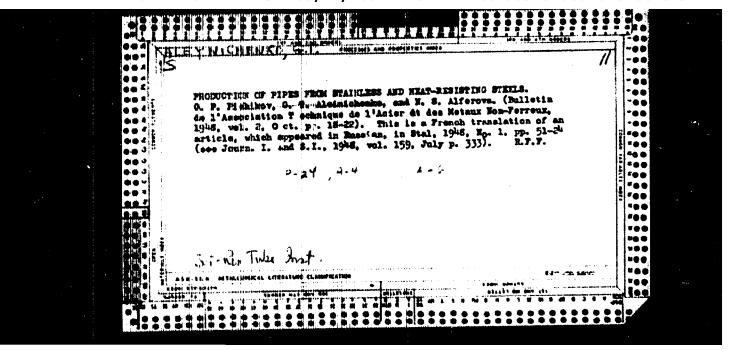
VERESHCHAGIN, V.N.; IVANOV, Yu.A.; BELYAYEVSKIY, N.A., glav. red.;
ALEXNER, A.Z., red.; GRIGOR YEV, A.V., red.; ZAYTSEV, I.K.,
red.; KLIMOV, P.I., red.; KRASNOV, I.I., red.; IANKIN, A.A.,
red.; MUZYLEV, S.A., red.; OGNEV, V.N., red.; TROSTNIKOVA,
N.Ya., red., izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

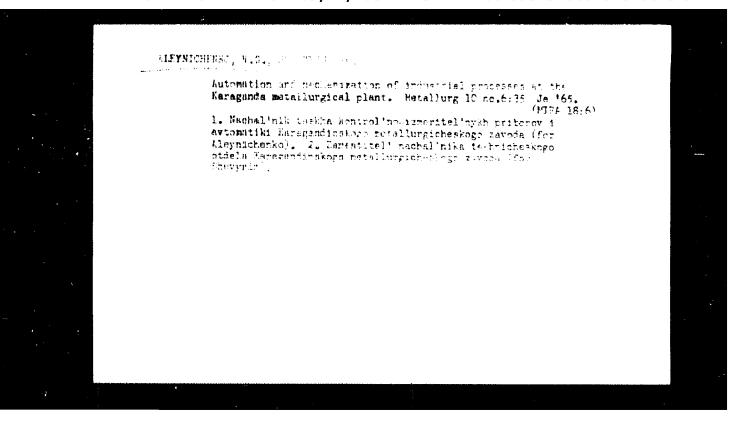
[Instruction for compiling and preparing for publication a geological map at a scale of 1:50,000; supplement to the instruction for organizing and conducting geological surveys at a scale of 1:50,000 and 1:25,000] Instruktsiia po sostavleniu i podgotovke k isdaniiu geologicheskoi karty masshtaba 1:50 000; dopolmenie k instruktsii po organizatsii i proizvodstvu geologos*emochnykh rabot masshtaba 1:50 000 i 1:25 000. Moskva, Cosgeoltekhindat, 1962. 41 p. (MIRA 15:6)

1. Russia (1923- U.S.S.R.) Ministeratvo geologii i okhrany nedr. (Geology-Maps)









12(2), 25(1), 28(1)
AUTHOR: Tatsiyevsky, V.V., Raskin, K.L., and Aleynik, B.Z.,

Engineers

TITLE: Semi-Automatic Core Shakeout Installation for motor

Cylinder Head Castings

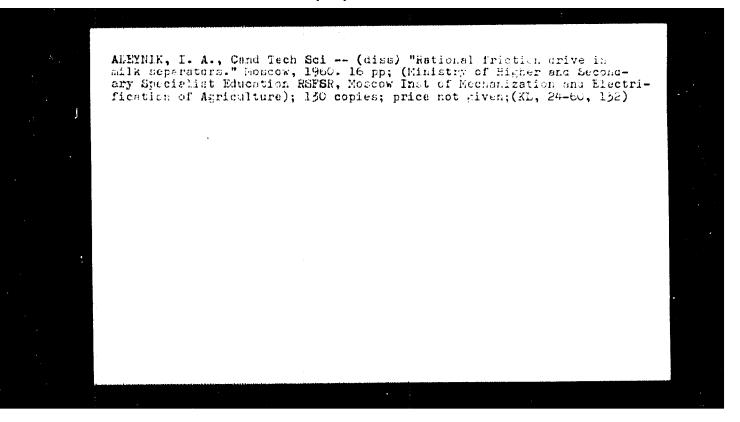
FERIODICAL: Liternoye proizvodstvo, 1959, Nr 8, pp 24 - 25 (USSR)

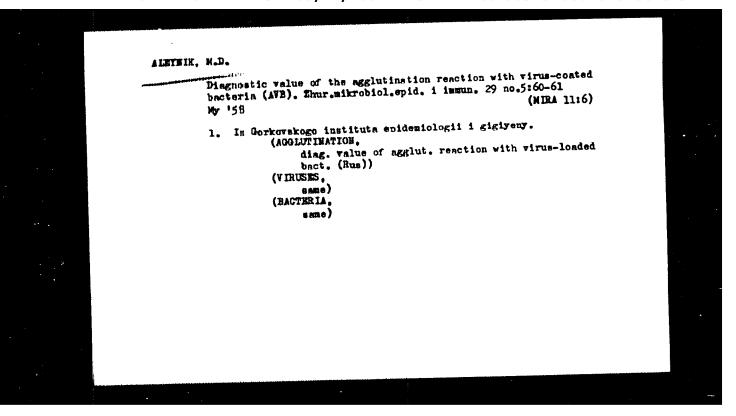
ABSTRACT: The shake-out work is one of the noisiest in proces-

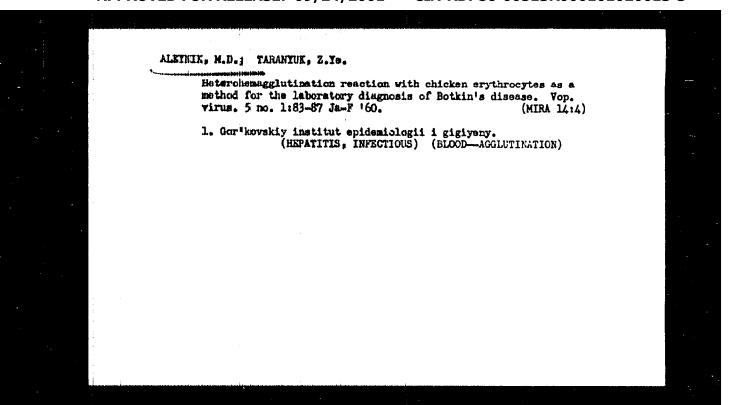
ses in the factory. In order to eliminate this noise and create better working conditions, the authors have designed a semi-automatic shake-out installation which brings the motor cylinder head castings by conveyor to a vibrator. The walls of the vibrator are insulated with thick felt and rubber. There are 5

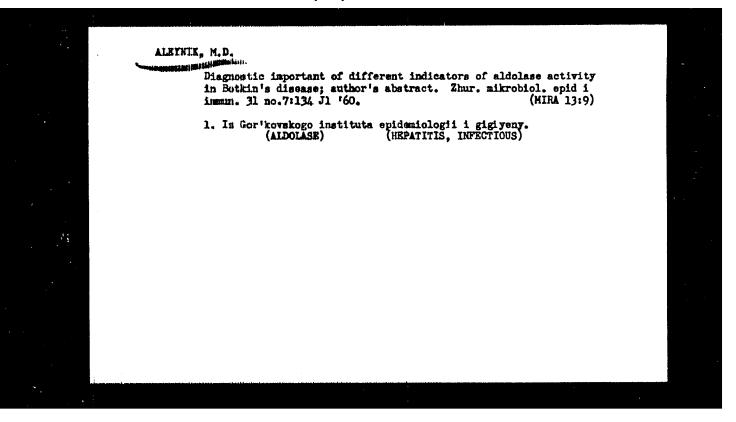
drawings.

Card 1/1









ALEYNIK, M.D., TARANYUK, Z.Ye.; NASONOVA, A.S.; NIKOLAYEVSKAYA, G.V.; ZOTOVÁ, A.G.

Study of the effectiveness of prophylaxis of Botkin's disease using gamma glabulin in childrens' institutions in Gorkiy and Dzershinsk. Vop.virus.7 no.5:617-618 S-O '62. (MIRA 15:11)

1. Gor'kovskiy institut epidemiologii i mikrobiologii, Gor'kovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya i Sanitarno-epidemiologicheskaya stantsiya avtozavodskogo rayona, Gor'kiy.

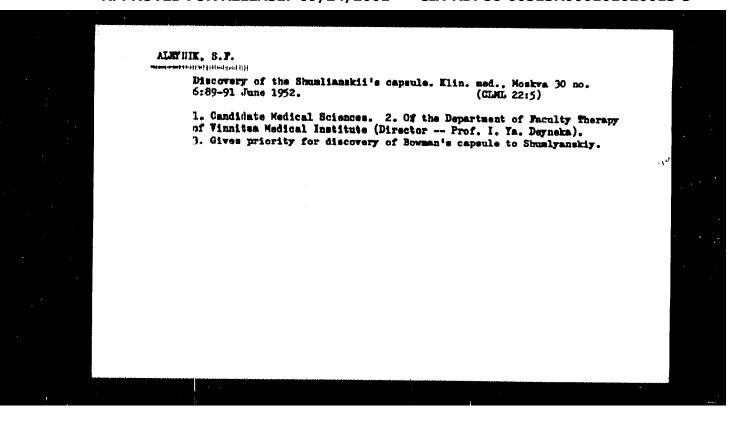
(GAMMA GLOBULIN)

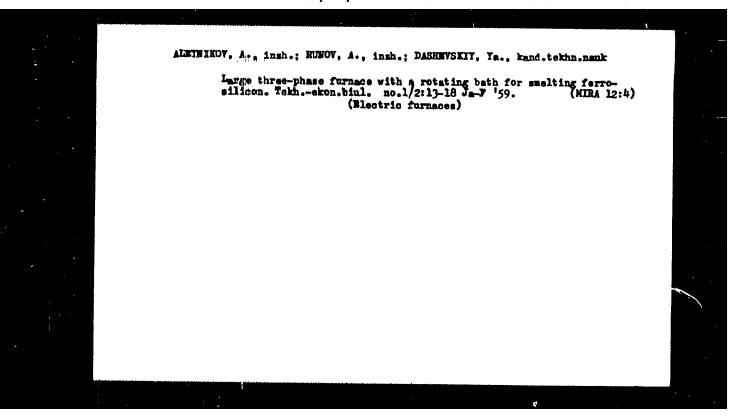
(CORKIY-HEPATITIS, INFECTIOUS)
(DZERZHINSK (GORKIY PROVINCE)-HEPATITIS, INFECTIOUS)

Harywis, N.I.: al'IMAN, R.Sh.: ORCH FTWM, Ye.s.: CHATTRIT, I.M.

Resolve of the isolation of rate. Human is short from the blood and on recents of patients with epidemic beautiful. Vertock virus. no.9220-20 164. (MIRA 1872)

1. Garlesvakiy Institut epidemic Supires mikesal legit.





ROGAN, A.B., goruyy insh.; ALETHIKOV, A.A., goruyy insh.; DUBOV, Ye.D., goruyy insh.; IVANOV-R.R., goruyy insh.; DUBOV, Ye.D., goruyy insh.; IVANOV-R.R., goruyy insh.; DUBOV, Ye.D., goruyy insh.; DU

ALEXHERON, A. A.

Stages and Flootieticus in the Course of Recession of a discier in the Northwestern Part of the Rousian Flain. A.A.Aleymikov, DAN SSSS, Vol. 7, no. 7, pp. 271-273, Apr 33.

An investigation in the Volkhov, impa, and have river besins which explains the law of distribution of complex placial deposits. This law, in expectition to nation of multiple placions, is based on setual data of the appetuation, in a simple process of clacial research, a considerable number of fluctuations take place, namely, stages would are accordanced by successive advance and retreat of the edge of the placier.

Presented by Acad. A.A.Polkanov

259TL9

A CONTRACTOR A

ALBINIKOV, A. A.

The retreat of the glacier in the northwestern part of the Russian plain, stages and oscillations:

p. 347 (Moksliniai Francsimiai) Vol. 4, 1957, Vilnius, Lithuania

SO: HONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (REAI) LC, VOL. 7, NO. 1, JAN. 1958

POZEYNIKOVIA. 4

AUTHOR:

Aleynikov, A. A.

20-3-39/59

TITLE:

A Stratigraphic Scheme of the Quarternary Deposits of the North-Western Part of the USSE and of the Contiguous Regions (Skhema stratigrafii chetvertichnykh otlozheniy severo-zapadnoy chasti SSSE i sopredel'nykh rayonov).

PERIODICAL:

Doklady AN SSSR, 1958, Vol. 118, Nr 3, pp. 553-554 (USSR)

ABSTRACT:

The author continued his work (ref. 1) on the stages of recession and of oscillations of the glacier of the mentioned area. He gives a scheme of the deposits as formed during the last glaciation (tab. 1). Five stages could be found; the earliest was 1) Beresinskaya, then 2) Dvinskaya,

3) Luzhskaya, 4) Nevskaya, and finally 5) Finskaya. According to this order the glacier withdrew to the North. Also the inter stages between them were investigated correspondingly. The earliest and at the same time the first inter stage after the interglacial time Beresinsko-Dvinskiy was characterised by a moderately cold climate (similar to one in the same area today). The next three inter stages named according to the stages before or after them were colder due to the glacier in near proximity. Their climate was

Card 1/3

A Stratigraphic Scheme of the Quarternary Deposits of the North-Western Part of the USSR and of the Contiguous Regions

20-3-39/59

subartic or artic. The rules of withdrawal of the glacier observed made possible the important conclusion that the formation of the Mginskaya mass and its analogs at the Neva River preceded the earliest stage i.e. the Berezinskaya stage and not Nevskaya stage. A marine mass is stratified at the same stratigraphic height with the continental interglacial deposits. This age assignment deviates from the opinion of some scientists that the Mginskaya strata belong to the late glacial stage. Besides the deposits of the last glaciation (Dneprovskoye) marine interglacial deposits were observed which indicates a complete disappearance of an older filaciation (Dneprovskoye). This latter glaciation covered a greater area than the most recent one (Valdayskoye - according to the opinion of the author). Although the history of the Unsprovskoye glaciation consisted also of stage and interstage periods, these stages and oscillations in the area covered later by the last glaciation can be studied only with difficulties, for the corresponding formations were subjected to denudation. However, this study is possible in the area located extraglacially will respect to the

Card 2/3

A Stratigraphic Scheme of the Quarternary Deposits of the 20-3-39/59 Horth-Western Part of the USSR and of the Contiguous Regions

last glaciation. The morainal stage somes of the older glaciation are often considered independent and thus, the number of glaciations and interglacial periods is augmented, which is not correct. The author observed only 2 glaciations and one interglacial period in the area investigated. They represent the main chapters of the geological history of the North-Western part of the USSR and the contiguous parts in the Quarternary period.

There are 1 figure, 1 table and 2 references, all of which

are Blavic.

ASSOCIATION: State University imeni A. A. Zhdanov, Leningrad

(Leningradskiy gosudarstvennyy universitet im. A. A.

Zhdanova)

PRESERTED: June 21, 1957, by D. V. Halivkin, Academician

SUBMITTED: February 18, 1957

AVAILABLE: Library of Congress

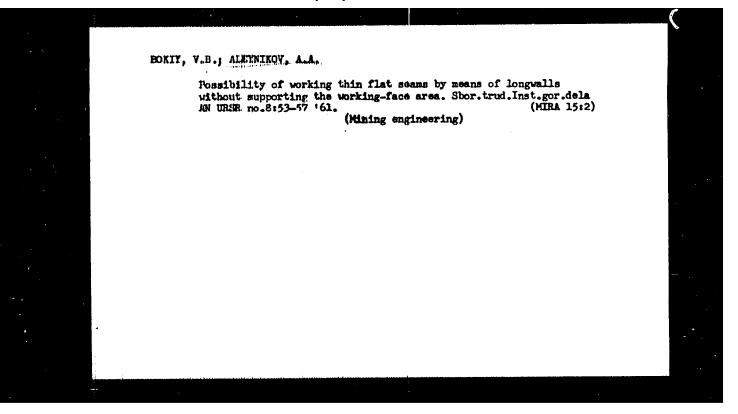
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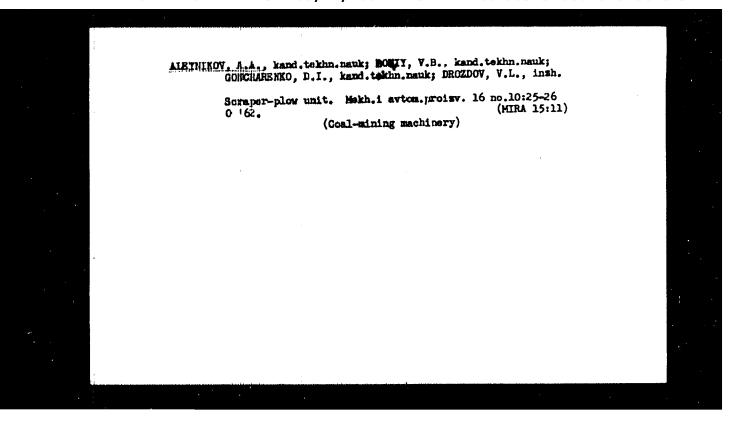
ALEXNIKOV, A. A., Cand Tech Sci -- (diss) "A Selection of the Rational Characteristics of Supporting Timbers on the Basis of a Study of the Nature of the Movement of the Overlying Strata (In the Conditions of the Donets Coal Field)." Leningrad, 1960, 17 pp (Ministry of Higher and Secondary Specialist Education LGFSh; The Leningrad Crders of Lenin and Labor Red Banner Rining Institute im G. V. Flekhanov, Chair of Exploitation of Stratified Deposits) 200 copies, no price given -- printed on duplicating machine (KL, 1-60, 122)

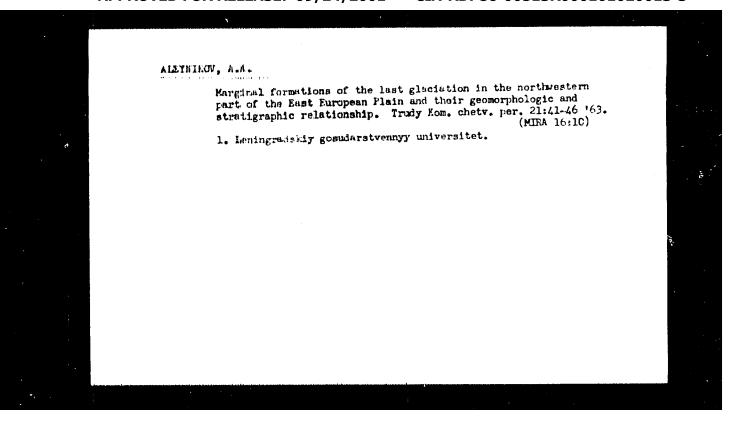
ALHYMIKOV, Anton Afenas'yevich; BUSCRGINA, N.I., red.; ZHUKOVA, Ye.G., tekhm.red.

[Basic problems relative to the study of quaternary sediments in the morthwestern U.S.S.R.] Ob canovnykh voprosakh izucheniia chetvertichnykh (antropogenovykh) etloshenii Severo-Zapada SSSR. Leningrad, Izd-ve Leningr.univ., 1960. 64 p. (MIRA 13:4)

(Russia, Morthwestern-Glacial epoch)



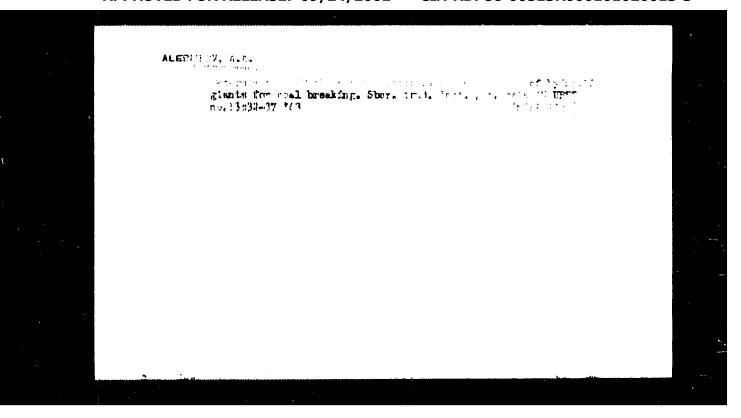




ALEYNIKOV, A.An., kand.tekhn.nauk; NEDODAYEV, N.V., inzh.;

REZNICHENKO, V.Ya., inzh.

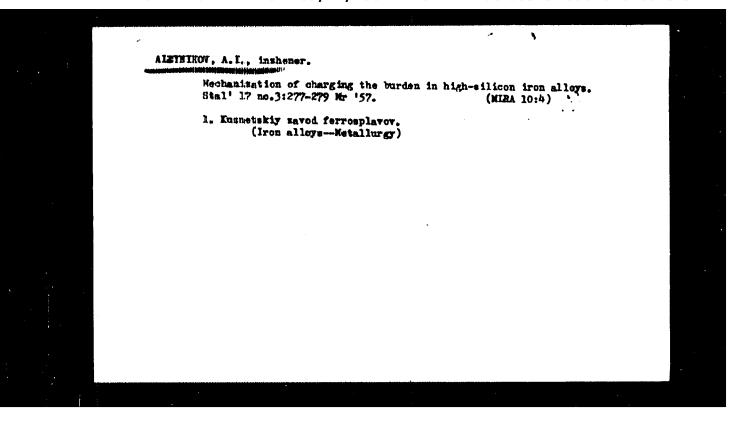
Behavior of wall rock during the working of steep seams with a diagonal face. Ugol' Jkr. 7 no.11:22-24 N '63. (MIRA 17:4)

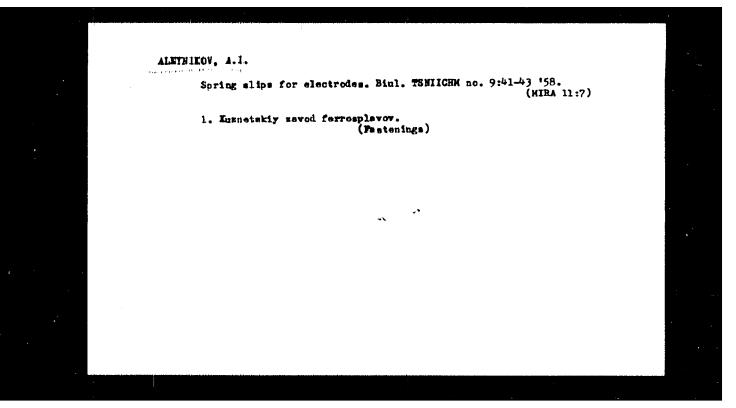


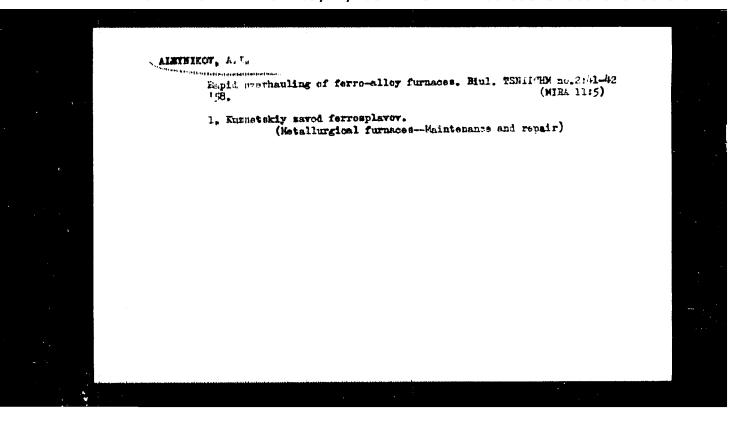
ALEXITIENT, A.A., kand. tekhn. nauk; CHUBENKO, P.F., gornyy inzh.; SMALIY, V. Ic., gornyy inzh.

Techniual and economic analysis of the conditions of the hvd-raulic breaking of coal in thin seams. Ugol* 39 no.6134-3: Je*66, (MIRA 1717)

1. Institut gornogo dela imeni M.M. Fedorova.







ALMYSIKOV, Add. BANJUSHIM, I.L.; VERSIM, I.M.; GRESENIK, V.M.; LYULZEKOV, V.I.;

SARAIPTENV, V.P.; SHERDIM, S.A.; SCKOLOV, L.D.; SHEROKOV, V.M.

Investigating the mechanism of the rotation process of ferroalloy furnace baths. Isv. vys. ucheb. zav.; chern. met. no.8:181-187 '60.

(NIRA 13:9)

1. Sibirkiy metallurgicheskiy institut.

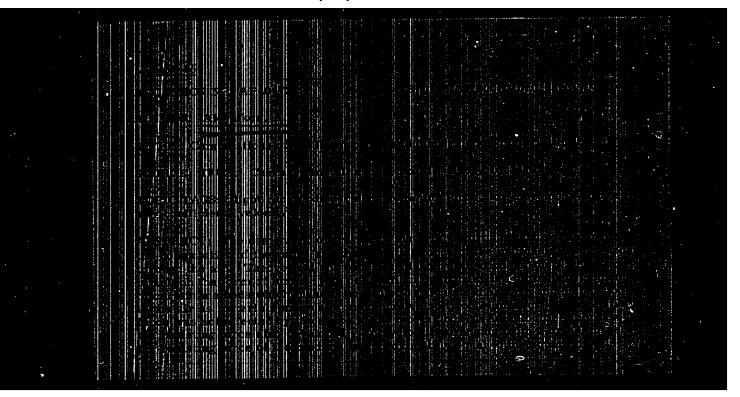
(Rotary hearth furnaces) (Iron alloys)

ALRYNIKOV, A.I.; BAKLUSHIN, I.L.; VEKSIN, I.N.; VOSKRESEMSKIY, V.A.;
GONCHAROV, O.M.; LYULENKOV, V.I.; SHIROKOV, V.N.

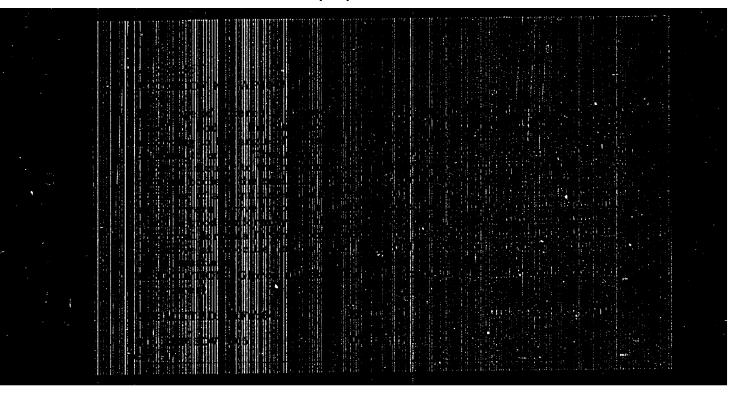
Investigating the throw mechanism of a charging machine on ferrowalloy furnaces. Izv. vys. ucheb. zav.; chern. met. 6 no.0:204-208 '63. (MIRA 16:8)

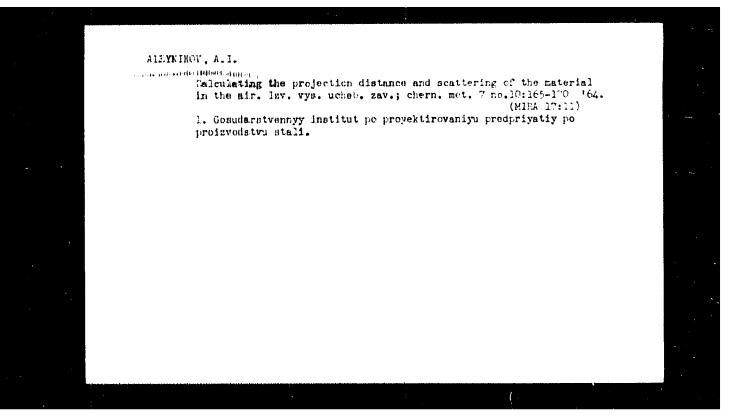
1. Sibirskiy metallurgicheskiy institut.
(Hetallurgical furnaces—Equipment and supplies)

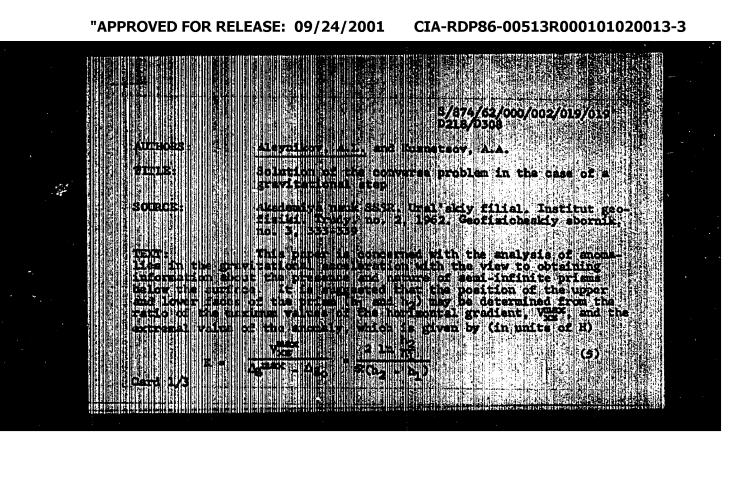
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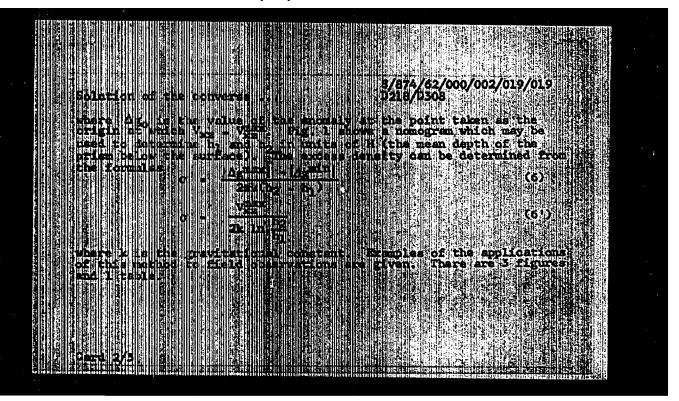


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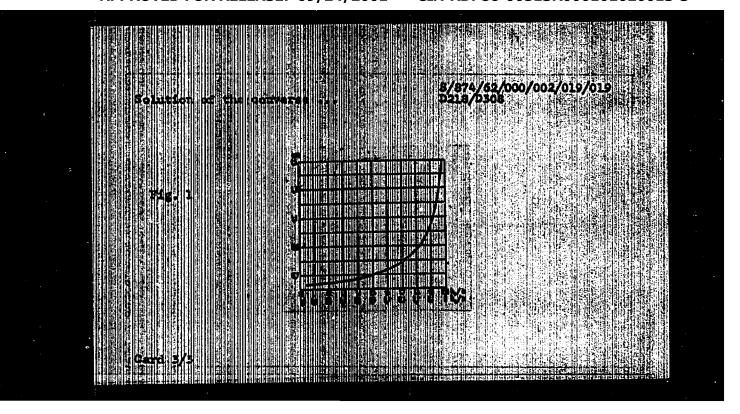


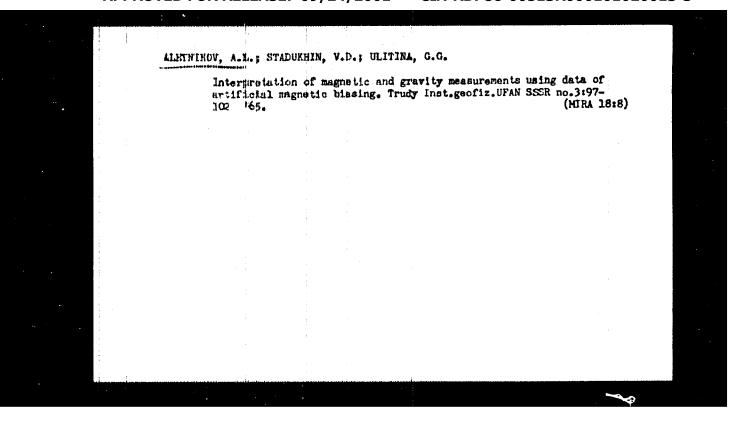






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CELCV. R.V., hand. tekhn. nauk; ALEYNIKOV, B.I., inzh.; BAZYLEV. V.G., kand. tekhn. nauk

Controlling the averaging process in ore mining with the help of electronic computers at the "Lebedin" strip mine in the Kursk Magnetic Anomaly. Gor. zhur. no.2:48-51 F 165.

(MIRA 18:4)

1. Institut gornogo dela im. A.A.Skochinskogo (for Orlov, Aleynikov). 2. Nauchno-issledovateliskiy institut Kurskoy magnitnoy anomalii im. L.D.Shevyakova (for Bazylev).

ALEYNIKOV, B.I., inzh.; ORLOV, R.V., kand. tekhn. nauk; BAZYLEV, V.G., kand. tekhn. nauk

Algorithm of the control of a mining complex with an averaging system; Labedi mine, Izv. vys. ucheb. zav.; gor. zhur. 3 no.2: 20-25 *65. (MIRA 18:5)

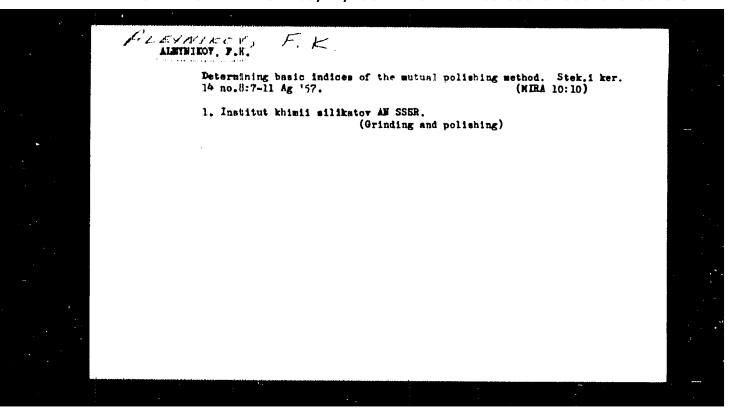
1. Institut gornogo dela imeni A.A.Skochinskogo (for Aleynikov, Crlov). 2. Nauchno-issledovateliskiy institut po problemam Kurskoy magnitnoy anomalii imeni L.D.Shevyakova (for Bazylev).

CHERNISOV, Yu.A., kand.tekhn.nauk; ALEXNIKOV, B.I., inch.

Methods of selecting the parameters of working faces in automatic programming control of rotary excavators. Nauch.soob.IGD 24:84-94
165.

(MIPA 18:10)

- 24 -



ALEYNIKOVEK.

AUTHOR: TITLE:

ALBINIKOV, P.K.

PA ~ 2548

Influence of Abrasive Powder Miorchardness on the Value of

Grinding Coefficient. (Vliyaniye mikrotverdosti abrazivnogo poroshka na mnacheniye koeffitsientov ob''yemmoy soshlifovyvacmosti,

opredelynyemykh metodom vzaimnogo shlifovaniya, Russian)

Zhurnal Tekhn.Fiz. . 1957, Vol 27, Nr 3, pp 567-574 (U.S.S.R.) Received: 4 / 1957

Reviewed: 5 / 1957

ABSTRACT:

PERIODICAL

Investigations were carried out with: marble, glass with 80 weight % PbO and 20 weight % SiO2, optical glasses TF-4, F-2, BK-6, K-8, highly transparent quarts glass, rock crystal and ruby. The following abrasive powders were used: quarts sand Nr. 100, 120 and silicon carbide Nr. 270, 100, 120. The coefficients of space-polishability (N) of brittle substances are constant and only in cases in which the microhardness of these powders amounts to the 2- to 3-fold of the hardest of substances to be polished, they do not depend on the nature and grain size of the powder. The coefficients of space polishability of brittle substances can be computed according to the relation of their microhardness. In order to obtain constant values for the coefficients of the space polishability it is necessary to work for a considerable time on

the initial surface with the abrasive powder with which the test

Card 1/2

PA - 2548

Influence of Abrasive Powder Miorchardness on the Value of Grinding Coefficient.

will be carried cut. Besides, it is necessary to chamfer the sample to be ground. (8 tables and 2 illustrations).

ASSOCIATION:

Silicate-Chemical Institute, Leningrad

PRESENTED BY:

SUBMITTED:

AVAILABLE:

15.9.1956

Library of Congress

Card 2/2

Als CYMICON, FK

AUTHOR:

Aleynikov, F. K.

57-12-6/19

TITLE:

Influence of Some Physical and Mechanical Properties of Brittle

Materials on the Process of Their Polishing.

(Vliyaniye nekotorykh fiziko-mekhanicheskikh svoystv khrupkikh materialov na protsese ikh shlifovki).

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 12,

pp. 2725-2737 (USSR)

ABSTRACT:

In this paper, the influence of the essential physical and mechanical properties of brittle materials characterizing the strength of these materials on the basic parameters designating the polishing process of these materials is investigated. These properties comprise: micro-strength, micro-shear strength, dispersion strength, elastic properties (as Young's modulus, shearing modulus and poissons number), whereas the basic parameters comprise: the power, the thickness of the elevated and of the destroyed layer. It is shown, that the basic parameters characterizing the polishing process of brittle materials depend on the physical and the mechanical properties of the material. It is further shown, that these quantities are

Card 1/5

Influence of Scan Physical and Machanical Properties of Brittle 57-12-6/19
Materials on the Process of Their Polishing.

connected with the above-mentioned properties under investigation by a function only in the case of identical brittleress. The brittleness is characterized by the

criterion $T = \frac{T_8}{R_{\mathcal{S}}}$. In the case of the materials under

investigation here it equals 2.3 to 2.8 . \mathcal{T}_s denotes the shear strength, R_G the breaking strength, T the brittleness or plasticity. The relations obtained here between the basic parameters of the polishing process and the physical and mechanical properties of the material may be used for the computation of the technological technique of the polishing process of these materials. The investigation was directed by N. N. Kachalov, corresponding member of the AN USSR, P. Ya. Bokin, V.P. Barzakovskiy and A. I. Korelov collaborated. The investigation was extended to: Marble, glass 3, quartz glass, ruby, and rock-crystal. There are 6 figures, 4 tables, and 21 references, 20 of which are Slavic.

Card 1/3

Influence of Some Physical and Mechanical Properties of Brittle 57-12-6/19 Materials on the Process of Their Polishing.

ASSOCIATION: Institute for Silicate Chemistry AN USSR Leningrad (Institut khimii silikatov AN SSSR Leningrad).

SUBMITTED: November 5, 1956.

Library of Congress AVAILABLE:

Card 3/3

01726

15.2510

8/020/61/141/003/014/021 2101/3117

AUTHORS:

Aleynikov, F. K., Slizhis, V. A. Paulavichyus, R. B., and

Dundais, P. V.

TITLE:

Direct electron-microscopic examination of the fine structure

of glass

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 3, 1961, 674-676

TEXT: Since the structure of replicas disturbs the electron-microscopic examination of glass, the authors developed a method of direct electron-microscopic glass examination. They used a JEM-5V electron microscope. Glass films were obtained from 0.2-0.5 mm thick glass laminas by grinding and polishing, or by blowing the molter glass with subsequent etching. Glass laminas were dissolved in HF until they permitted good penetrability to the electron beam. The laminas were first etched with 20%, then with 10; 4; 2; and 0.5% HF. Blown glass was etched with 4; 2; and 0.5% HF. Distinct fine structures were also obtained by etching with lye. The electron-microscopic examination showed that two-, three-, and multi-component glasses were not homogeneous. [Abstracter's note: electron Card 1/5

•		
	70 726	
Direct electron-microscopic	S/020/61/141/003/014/021 E:01/B117	
microphotographs not reproducible deciphered by a proper choice of thof microheterogeneities were found:	8 BOLGSS: THE TOTTOWING gramming.	
Type of glass or its composition	D. ensions of microheterogeneities,	X
O; tical quartz glass Glass of quarts tubes Na ₂ 0-5SiO ₂	- - 60 - 150	
Na ₂ 0-1.53e ₂ 0-58i0 ₂	50 - 150	
Na ₂ 0.Ca0.5BiO ₂ Na ₂ 0.Zr0.5SiO ₂	60 - 80 30 - 150	
Na_0.C40.5S102	25 - 40	
Na_0-2-5Ba0-SiOg	60 - 80	
Na20-B203-5S102	80 - 150	
Na ₂ 0-9B ₂ 0 ₃ -15 Si 0 ₂ Card 2/3	or an engeneity of the skeleton	

s/020/61/141/003/014/021 B101/B117

Direct electron-microscopic ...

Type of glass or its composition

Dimensions of microheterogeneities,

Window sheet glass

60 - 80

Cover glass

80 - 150

Microinhomogenesties do not only depend on the type of thermal treatment but also on the glass composition. There are 2 figures, 1 table, and 8 references: 6 Soviet and 2 non-Soviet. The reference to the Englishlanguage publication reads as follows: I. Warshaw, J. Am. Ceram. Soc., 1, 4 (1960).

ASSOCIATION:

Institut khimii i khimicheskoy tekhnologii Akademii nauk LitSSR (Institute of Chemistry and Chemical Technology of

30726

the Academy of Sciences Litovskaya SSR)

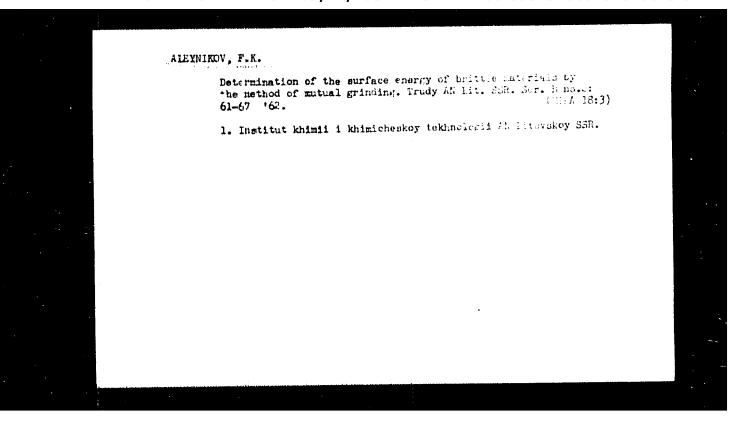
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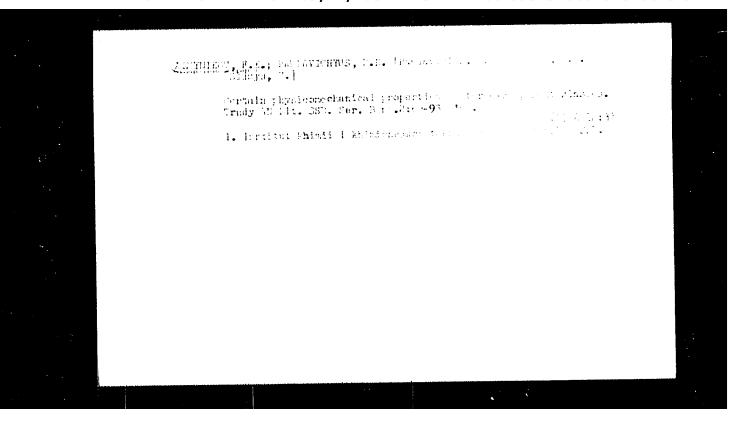
May 30, 1961, by N. V. Belov, Academician

SUBMITTED:

Nay 30, 1961

Card 3/3





42559

5/236/62/000/002/002/004 E071/E135

1. 1.1.64 AUTHORS:

Aleynikov, F.K., Paulavichyus, R.B., and Slizhis, V.A.

TITLE:

A study of some physico-mechanical properties of

three-component glasses

PERIODICAL: Trudy Akademii nauk Litovskoy SSR, Seriya B, 2(29), 1962, 69-94

A systematic investigation was made of the microhardness, microstrength (crack resistance) and brittleness of glasses of the following compositions: $R_{20} \cdot xR_{0} \cdot 5 \text{ sio}_{2}$, where $R_{20} = \text{Li}_{20}$, Na_{20} and K_{20} ; $R_{0} = \text{Beo}$, Mg_{0} , Ca_{0} , system x820.5 5i02 and the ternary sodium calcium silicate system in which the proportions of both sodium and calcium oxide were, varied, was also studied. The glasses investigated were prepared from very pure components and molten in platinum crucibles. All glasses were preliminarily annealed for 4 hours at 450-650 °C (depending on composition) and then, after experimental determination of their softening temperature, were re-annealed for 2 hours at 10-15 °C below the softening temperature. Glasses which showed Card 1/4

A study of some physico -mechanical... 5/236/62/000/002/002/004

a tendency to crystallisation were not submitted to the secondary annealing. Two types of specimens were used for the investigations; cylindrical 15-20 mm diameter, 5-15 mm height; and small glass chips 1-4 mm diameter in which no stresses could be detected with a polariscope. The microhardness was determined by means of a diamond pyramid indentor; the microstrength and the brittleness criterion were calculated from the dimensions of the indentations, using the following formulae of N.K. Dertey:

$$R = 4800 \frac{P(1 + 2\mu)}{4d^2 + \ell^2}$$
 (2)

$$T = 0.61 \left(4 + \frac{\ell^2}{d^2}\right) \left(\frac{1 - 2\mu}{1 + 2\mu}\right)$$
 (3)

where: R = microstrength in tension, kg/mm²; T = brittleness criterion; P = indentor (load), g; ℓ = length of crack at the angles, microns; d = length of the diagonal of the indentation, microns; μ = Poisson coefficient. According to preliminary experiments on homogeneous optical glass Card 2/4

A study of some physico-mechanical... 8/236/62/000/002/002/004 E071/E135

k-8, residual stresses have no noticeable effect on the length of cracks in the indentations unless they are of the order of 100 mu/cm; the values for some of the synthesised glasses were 10-50 mm/cm. The residual stresses in small glass chips, obtained by thermal cracking or mechanical breaking of large pieces, do not disappear although the polariscope does not show presence of stresses. It was found (using glass Na₂0.Ca0.5 Si0₂) that melting of glass during 2 and 4 hours has no practical influence on its strength characteristics, while a prolonged high temperature annualing lowers the microhardness and increases the resistance to cracking. As a rule, with increasing indentor load (50-150 g) the microhardness of glasses free from traces of crystallisation decreases by 3-8%, the microstrength decreases by 25-35%, but the brittleness criterion increases by 15-20%. Conclusions: 1) As regards their influence on increasing the microhardness, alkali earth oxides can be placed in the following order: BeO >CaO > NgO > SrO > BaO and ZnO > CdO; and as regards their influence on the microstrength, in the following order; Beo > MgO > CaO > SrO > BaO and ZnO > CdO. Curd 3/4

A study of some physico-mechanical ... S/236/62/000/002/002/004 E071/E135

2) Alkali oxides increase the microhardness and microstrength of glasses in the following order: Li20 >Na₂0 >K₂0.

3) Alkali oxides lower the brittleness of glasses in the following order: K20 > Nago > Li20.

4) Glasses of the same microhardness but with lower values of the brittleness criterion are stronger.

5) In the termary system $Na_20-Ca0-5i0_2$ the microhardness depends mainly on the proportion of calcium oxide. There are 8 figures and 6 tables.

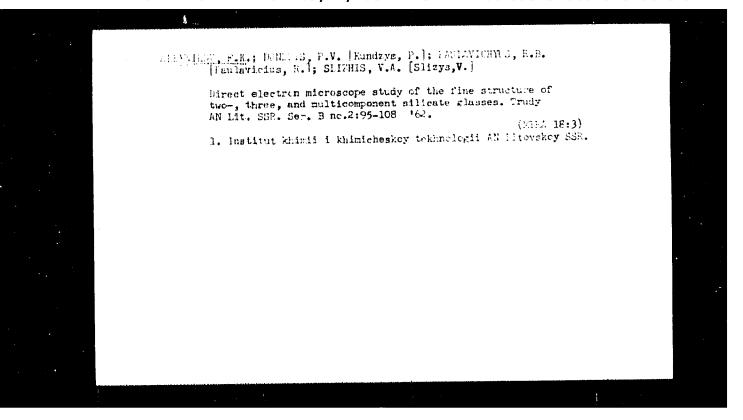
ASSOCIATION: Institut khimii i khimicheskoy tekhnologii . Akademii nauk Litovskoy SSR)

(Institute of Chemistry and Chemical Technology,

AS Lithuanian SSR)

SUBMITTED: November 18, 1961.

Card 4/4



S/236/62/000/004/003/009 D204/D307

AUTHORS:

Slizhie, V. A., Aleynikov, F. K. and Paulavichyus, R.B.

TITLE:

The selection of composition for the production of

foamed glass

SOURCE:

Akademiya nauk Litovskoy SSR. Trudy. Seriya B. no. 4,

1962, 71-76

TEXT: Sheet window glass, bottle glass and laboratory-prepared \$10₂-Al₂0₃-Pe₂0₃-CaO-NgO-Na₂O-K₂O glasses were investigated in an effort to reduce the required foaming temperature and therefore lower the costs of this process. The alkali contents of the laboratory glasses were 15 - 17% and 19 - 20%. The specimens were foamed at 620 - \$70°C, using 2% (by weight) of north-western Lithuanian limestone from the "Karpenay" deposit as the foaming agent, and their weights by volume were determined as a function of the foaming temperature. It was found that the latter property was considerably raised by small amounts of Al₂O₃, and was lowered

Card 1/2

The selection of ...

S/236/62/000/004/003/009 D204/D307

by Fe₂0₃ and Na₂0, although large additions of the alkali made the glass hygroscopic. Thus the cheap, Fe-containing bottle glass (from the "Alyalsotas" factory) could be foamed at lower temperatures than the sheet window glass, i.e. at 730 - 830°C with limestone or dolomite, and at 730 - 800°C with coke. At higher temperatures the pores were larger and more uneven. The foaming range could be increased by the addition of CaO and MgO. There are 3 tables.

ASSOCIATION:

Institut khimii i khimicheskoy tekhnologii Akademii nauk Litovskoy SSR (Institute of Chemistry and Chemiscal Technology, Academy of Sciences of the Lithuanian SSR)

nian ssk

SUBMITTED:

. March 24, 1962

Card 2/2

\$/236/62/000/002/003/004 E071/B135

AUTHORS:

Aleynikov, F.K., Dundzis, P.V., Paulavichyus, R.B.,

and Slizhis, V.A.

TITLE:

A direct electronmicroscopic investigation of the fine structure of di-, tri- and multi-component silicate

glasses

FERIODICAL: Trudy Akademii nauk Litovakoy SSR, Seriya B, 2(29),

1902, 95-108.

TEXT: In view of the scarcity and some uncertainties of the results obtained in published investigations, a study of the fine structure of transparent glasses was undertaken, on the following types of glass: Na20 5 SiO2: R20.xR0.5 SiO2 (where R20 = Li20, Na20, K20; R0 = BeO, MgO, CaO, ZnO, SrO, CdO, BaO, PbO; x = 0.5, 1.0, 1.5, 2.0, 2.5 and 3.0) as well as on some multicomponent glasses - ordinary sheet glass, glass electrodes etc. The development of a suitable method was done using glass of composition Na₂0.Cd0.5 SiO₂. The electron microscope used had a resolving power of about 8-10 Å (magnification 50-100 thousand). Initially, carbon replicas with a preliminary shading of a fresh Card 1/3

A direct electronmicroscopic ...

\$/236/62/000/002/003/004 E071/E135

glass fracture at an angle of 15-20° with platinum or tungsten oxide were used. These replicas, however, showed their own structure and not that of the glass. Subsequently carbon-platinum replaces were made, applying the method of D.E. Bradley, by apraying a thin platinum-carbon film at an angle of 45° to the surface of the glass. Since this method is very laborious and the replicas can to some extent distort the actual glass structure, a direct method of preparation of glass films for studying the structure was developed. Initially, this consisted in etching thin, polished glass plates (0.2-0.5 mm thick); later blown glass films were used which were subsequently etched in hydrofluoric acid or mixtures of hydrofluoric with another mineral acid, until a necessary thin film was obtained. The experimental procedure is described in some detail. The atructure observed directly on a thus prepared specimen of NagO.CdO.5 SiO2 glass was identical with that observed on the replica prepared by the Bradley method. The specimens prepared by etching showed not only the surface structure of glass, but in some cases the distribution of micrononuniformities in the whole thickness of the glass film. Therefore this method of investigation was used in further studies. It was established Card 2/3

A direct electronmicroscopic ... 5/236/62/000/002/003/004 E071/E135

that none of the glasses investigated were homogeneous; they consist of a skeleton rich in silica and a multiplicity of microdendrides which depend on the chemical composition of glass as well as on its thermal history and technological factors. The majority of the glasses investigated had microdendrides of an order of $40-100~\text{\AA}$. There are 4 figures and 1 table.

ASSOCIATION: Institut khimii i khimicheskoy tekhnologii

Akademii nauk Litovskoy SSR

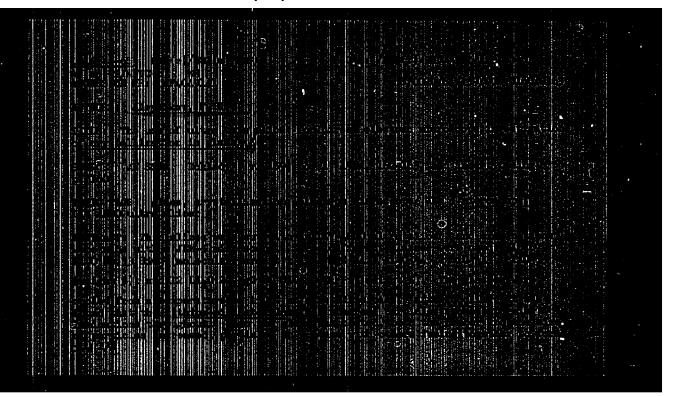
(Institute of Chemistry and Chemical Technology,

AS Lithuanian SSR)

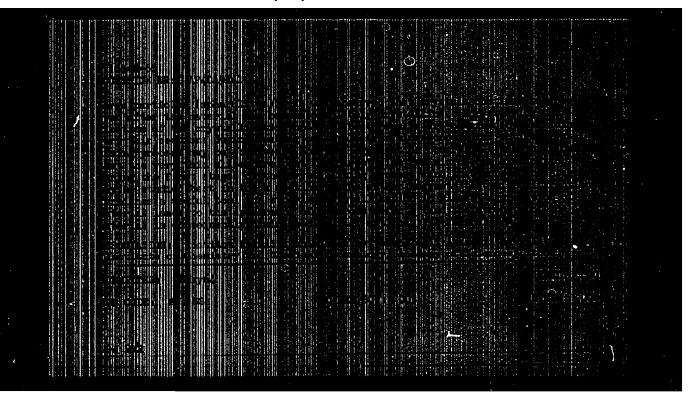
SUBMITTED: December 2, 1961.

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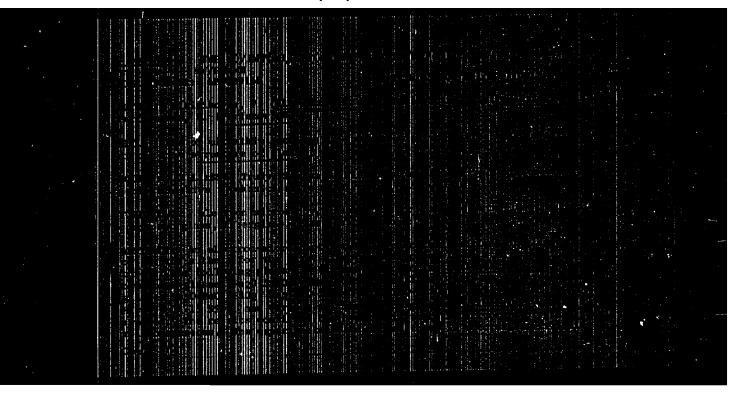
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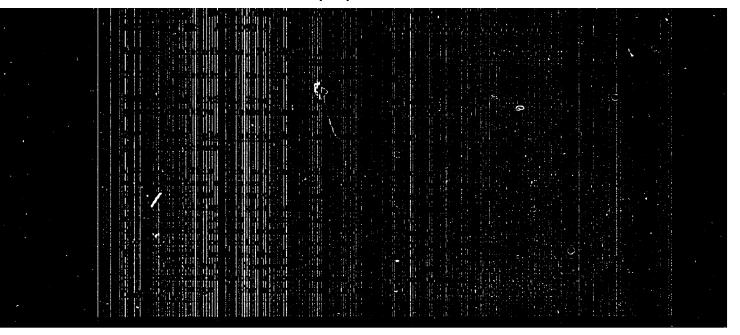


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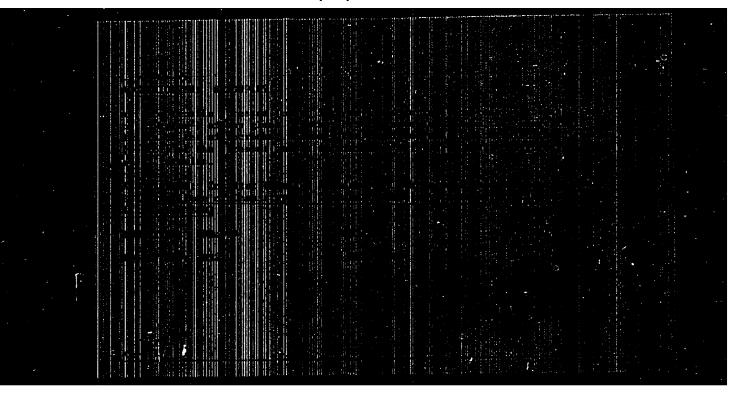








"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000101020013-3



PARFENOY, V.A.; ALEYNIKOY, F.K.; SLIZHIS, V.A. [Slizys, V.]

Use of the thermographic method for the determination of vitrification temperature. Trudy AN Lit. SSR. Ser.B no.1:33-38 '65. (MIRA 18:7)

1. Institut khimii i khimicheekoy tekhnologii AN Litovekoy SSR.

